25.6V280Ah(7168Wh)

Welion eco lithium series batteries provide superior performance, capacities and reliability. Using state of high power cell technology, the lithium series is designed for environmentally sensitive areas that require enhanced cycle life capabilities incommercial.

Welion eco lithium batteries are widely used in industrial, residential commercial and private applications. The maintenance free construction and advanced design features makes the lithium series the definitive choice for a wide variety of markets. Like solar and renewable energy storage, electric vehicle, golf cart and industrial equipment, floor machines, forklifts, aerial lifts, and robotics; marine, RV, and no-idle solution; Mobility and Medical Equipment; Telecom, Broadband and Cable TV; UPS systems.

Applications

BATTERY SPECIFICATIONS

Battery type-Chemistry	LiFePO4	Voltage Window	21.6V-29.2V
Nominal Voltage	25.6V	Recommend Charge Voltage	28.8V
Nominal Capacity	280Ah	Max Charge Voltage	29.2V
Energy Density	7168Wh	Recommend Charge Current	50A
Dimensions(LxWxH)	470*197.4*600mm	Max Continuous Current	150A
Weight	60.5KGS	Recommend Discharge Voltage	22.4V
Terminal Type	SC	Max Discharging Voltage	21.6V
Terminal Torque	8.5NM	Max Continuous Discharge Current	150A
Case Material	SPCC	Peak Discharge Current	200A
BMS build-in	Yes	Cycle life(0.2C, 25°C@80% DOD)	6000 Cycles
AH Efficiency – round trip	>98%	Discharge Temperature	(- 20 to 60)°C
Self Discharge per Month	<3%	Charge Temperature	(0 to 55)°C
Max in Parallel	16PCS	Storage Temperature	(- 20 to 45)°C
Max in Series	Not Allowed	Bluetooth(App)	Yes
LCD Screen	Yes	Heating Function	Optional

BMS CHARACTERISTICS

Primary Charging Protection	Current :155A	Delay Time: 20s
Second Charging Protection	Current :160A	Delay Time: 2~3ms
Primary Discharging Protection	Current :155A	Delay Time: 10s
Second Discharging Protection	Current :160A	Delay Time: 2~3ms
Over Charge Voltage Protection	Voltage :29.2V	Delay Time: 1~2s
Over Discharge Voltage Protection	Voltage :21.6V	Delay Time: 1~2s
Temperature Protection	PCB Temperature≥95 Recover≤85	°C
Communication Port	Major RS485, optional for CAN / Dryport, customized acceptable	

25.6V280Ah(7168Wh)

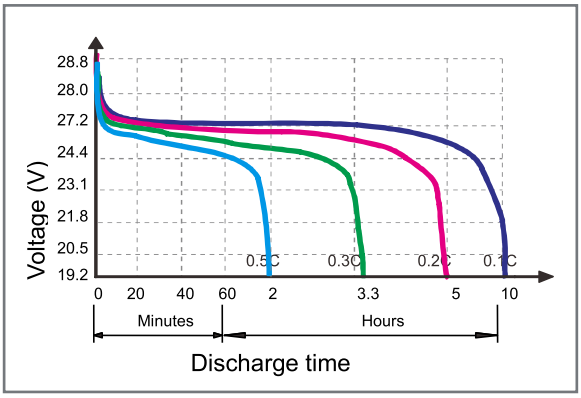
Constant Current Discharge Data (Amperes @ 25°)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (21.6V)	280A	140A	93.3A	70A	56A	28A	14A

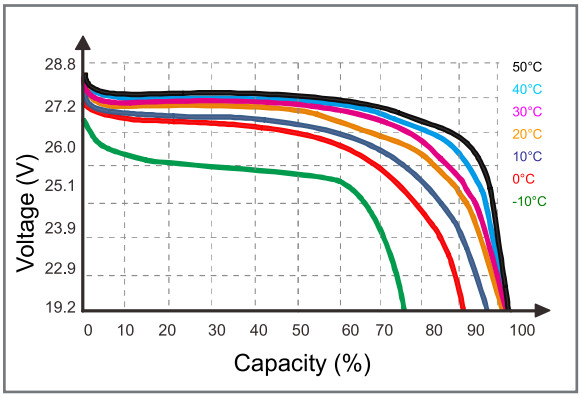
Constant Power Discharge Data (Watts @ 25°C)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (21.6V)	7168W	3584W	2389.3W	1792W	1433.6W	716.8W	358.4W

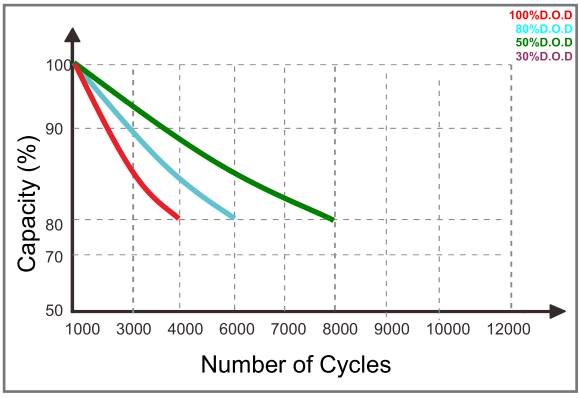
Discharge characteristics (25°C)



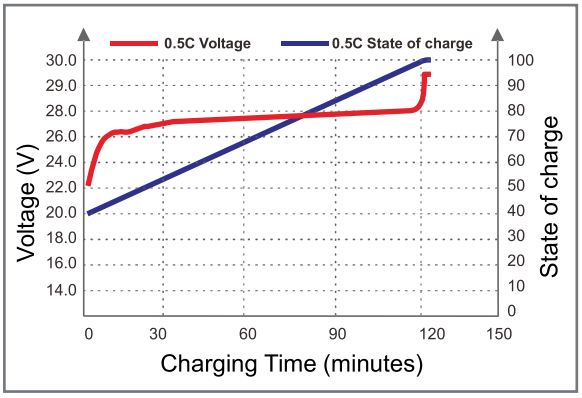
Different Temperature Discharge Curve (0.5C)



Different DOD Discharge cycle life Curve 0.2C 25°C



State of Charge Curve (0.5C, 25°C)



Note 1: Please always refer to the latest edition of our technical manual that published on our website to ensure safe and efficient operation.

Note 2: When make parallel connection, please full discharge batteries, then recharge after parallel connected; when series connect, please keep batteries with same remain capacity/